

Abstract of the Disclosure

A magnetically coupled pushbutton switch may be improved by adding protuberances to the top of an armature to create a weak heel on the armature. The protuberances impose a physical barrier which prevents the weak heel from becoming fully magnetically coupled to the magnetic coupler layer, so the initial tactile feedback is lost. Eliminating the double tactile feedback of a magnetically coupled pushbutton switch has some significant advantages over the prior art. Now, a very light actuation force will move an armature with a weak heel from the rest position to a partially actuated position, but without sacrificing any of the final tactile feedback. The improved armature design also makes it possible to use a magnetically coupled pushbutton switch to produce a dual output. The initial travel of a dual output switch does not create any feedback to the user, so there is no longer a need to stabilize the bottom of the heel end of the armature. A dual output armature can electrical connect a common electrical conductor placed under the heel end of the armature to two separate electrical conductors positioned under the toe end of the armature such that there is no output until the armature is fully actuated, at which time all three electrical conductors are simultaneously electrically connected by the dual output armature.